5-5175472-1 ✔ ACTIVE

CHAMP | CHAMP .050 Series I

TE Internal #: 5-5175472-1

PCB Mount Header, Right Angle, Board-to-Board, 20 Position, 1.27 mm [.05 in] Centerline, Fully Shrouded, Gold (Au), CHAMP .050 Series I

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Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Header**

Connector System: **Board-to-Board**

Number of Positions: **20**

Centerline (Pitch): **1.27 mm [.05 in]**

PCB Mount Orientation: **Right Angle**

Features

Product Type Features

PCB Connector Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Stackable	No
Number of Positions	20
PCB Mount Orientation	Right Angle

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	1 MΩ

Body Features

PCB Retention Feature Material	Brass
PCB Retention Feature Plating Material	Tin over Nickel
Connector Profile	Standard
Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Mating Tab Width	.8 mm[.031 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.4 µin]
Contact Shape & Form	Single Tine
Contact Layout	Inline
Contact Mating Area Length	6.6 mm[.259 in]
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.32 mm[.013 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Tab
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Width	.5 mm[.02 in]
Rectangular Termination Post & Tail Thickness	.32 mm[.013 in]
Termination Post & Tail Length	3.1 mm[.122 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

PCB Mount Retention Type	Retention Leg
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	With

Housing Features

Centerline (Pitch)	1.27 mm[.05 in]

Housing Material	Nylon 66 GF

Dimensions

Connector Width	17.46 mm[.687 in]
Connector Height	7.5 mm[.295 in]
PCB Thickness (Recommended)	19.3 mm[.76 in]

Usage Conditions

Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]

Operation/Application

Circuit Application	Signal

Industry Standards

Compatible With Agency/Standards Products	UL
UL Rating	Recognized
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	190
Packaging Method	Tray

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products

will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

Compatible Parts



TE Part # 3-5175472-1
CHAMP 050 B-T-B PLUG H W/LEG 20P



TE Part # 5175474-1
CHAMP 050 BTB REC H 20P W/LEG



TE Part # 5175472-1
CHAMP 050 BTB PLUG H W/LEG 20P



TE Part # 3-5175475-1
CHAMP 050 B-T-B REC V W/LEG



TE Part # 5175473-1
CHAMP 050 BTB PLUG V 20P W/LEG



TE Part # 5175475-1
CHAMP 050 BTB REC V 20P W/LEG



TE Part # 5-5175474-1
.050CL CHAMP RTANG RCPT 20 POS

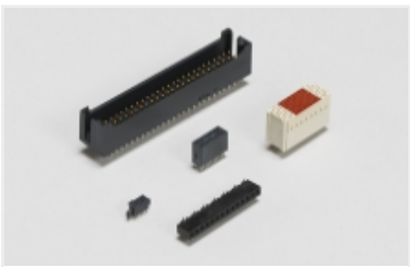


TE Part # 5-5175475-1
.050CL CHAMP VERT RCPT 20 POS

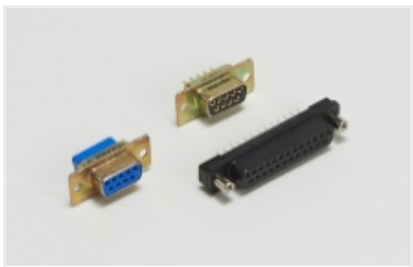


TE Part # 3-5175473-1
CHAMP 050 BTB PLUG V 20P W/LEG

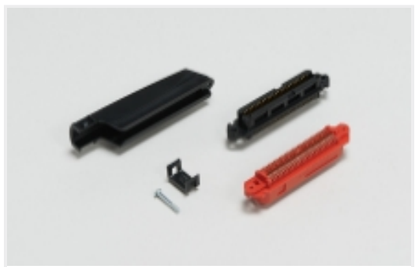
Also in the Series | CHAMP .050 Series I



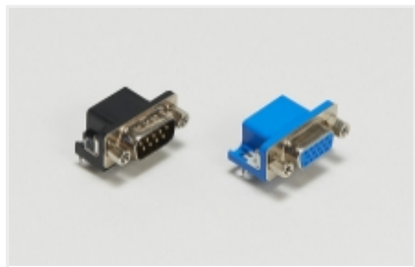
Board-to-Board Headers & Receptacles(127)



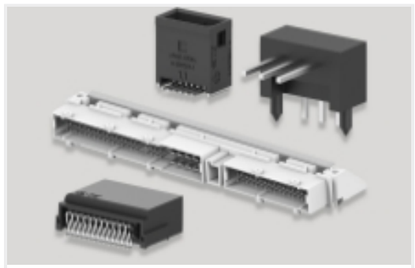
D-Shaped Connectors(7)



IDC D-Sub Connectors(6)



PCB D-Sub Connectors(1)



PCB Headers & Receptacles(127)

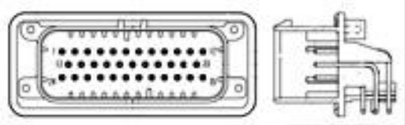
Customers Also Bought



TE Part #1-66359-9
III+PIN,18-14,TIN,STRIP



TE Part #643425-1
09P UMNL HDR ASSY POL



TE Part #1-776163-6
35POS,PIN DIA 1.3,HDR ASSY,90DEG, COD 6



TE Part #CAT-AM78-H342
AMPSEAL PCB Vertical Headers



TE Part #7-1879352-8
RR02 5% 510R AMMO



TE Part #2-1879450-6
TE 500W 120R 5% Bracket



TE Part #1-6609987-4
15SRB8-W=F8220D



TE Part #2-1393788-0
V23079A1006B301



TE Part #2386906-3
LUG CONN CA,REV,SER 1,SZ 11-4, LGTH 2.0 M

Documents

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_5-5175472-1_O.2d_dxf.zip

English

Customer View Model

ENG_CVM_5-5175472-1_O.3d_igs.zip

English

Customer View Model

ENG_CVM_5-5175472-1_O.3d_stp.zip

English

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Product Specifications

Product Specification

English